



Attorney Docket No.: 143385

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April 12, 2004

Eric W. Gutttag

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Irene SPITSBERG et al

Serial No. 10/748,513

Filed: December 30, 2003

For: THERMAL BARRIER COATINGS WITH IMPROVED
IMPACT AND EROSION RESISTANCE

:
: Group Art Unit:
: Confirmation No.:
:

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 CFR 1.56, 1.97 and 1.98
(WITHIN 3 MONTHS OF FILING OR PRIOR TO FIRST OFFICE ACTION)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.56, 1.97 and 1.98, Applicants request the Examiner to make of record the documents listed on the attached PTO-1449 forms. Copies of the listed documents that are not U.S. patent documents are also enclosed. In accordance with MPEP 609, the Examiner is requested to initial each document listed on the attached PTO-1449 forms in the space provided, make a copy of the initialed form, and return the copy to Applicants' attorney.

Applicants also request the Examiner to consider and make of record certain copending U.S. application(s) that are listed in the attached Table entitled "Copending U. S. Patent Applications." Copies of the copending application(s) listed in the attached Table are also enclosed. In accordance with MPEP 609, the Examiner is requested to initial each copending application listed on the attached Table in the space provided, make a copy of the initialed Table, and return the copy to Applicants' attorney.

This paper and the enclosed documents are being submitted in accordance with 37 CFR 1.97(b), i.e., within three (3) months of the application filing date or prior to a first Office Action on the merits.

Respectfully submitted,

For: Irene SPITSBERG et al

By

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April 12, 2004



Attorney Docket No.: 143385

COPENDING U. S. PATENT APPLICATIONS

| Examiner Initial | Applicant(s) | Serial No. | Filing Date | Attorney Docket No. |
|---------------------|------------------|------------|----------------|------------------------|
| | Gorman et al | 10/748,516 | 12/30/03 | 127051 |
| | Boutwell et al | 10/748,517 | 12/30/03 | 127084 |
| | Darolia et al. | 10/748,519 | 12/30/03 | 128895 |
| | Spitsberg et al. | 10/748,508 | 12/30/03 | 129967 |
| | Spitsberg et al | 10/748,520 | 12/30/03 | 129968 |
| | Spitsberg et al | 10/748,521 | 12/30/03 | 130706 |
| | Spitsberg et al | 10/748,518 | 12/30/03 | 130707 |



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

| | | | | | |
|-------|---|----|---|------------------------|-------------------|
| Sheet | 1 | of | 1 | Application Number | 10/748,513 |
| | | | | Filing Date | December 30, 2003 |
| | | | | First Named Inventor | Irene Spitsberg |
| | | | | Art Unit | |
| | | | | Examiner Name | |
| | | | | Attorney Docket Number | 143385 |

U.S. PATENT DOCUMENTS

| Exam. Initials* | Cite No. ¹ | Document Number | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------|-----------------------|--|-----------------|--------------------------------|--|---|
| | | Number - Kind Code ² (if known) | | | | |
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| | | US- | 5,180,696 | 01/19/1993 | Inoue | |
| | | US- | 5,350,599 | 09/27/1994 | Rigney et al. | |
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| | | US- | 5,981,088 | 11/09/1999 | Bruce et al. | |
| | | US- | 6,025,078 | 02/15/2000 | Rickerby et al. | |
| | | US- | 6,054,184 | 04/25/2000 | Bruce et al. | |
| | | US- | 6,117,560 | 09/12/2000 | Maloney | |
| | | US- | 6,123,997 | 09/26/2000 | Schaeffer et al. | |
| | | US- | 6,183,884 | 02/06/2001 | Rickerby | |
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| | | US- | 6,319,614 B1 | 11/20/01 | Beele | |
| | | US- | 6,333,118 B1 | 12/21/2001 | Alperine et al. | |
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| | | US- | 2003/0044624 A1 | 03/06/2003 | Spitsberg et al. | |
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| | | US- | 2003/0059633 A1 | 03/27/2003 | Ackerman et al. | |
| | | US- | 2003/0224200 A1 | 12/04/2003 | Bruce | |

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Exam. Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) volume-issue number(s), publisher, city and/or country where published. | T ² |
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| | | HWANG et al., "Grain Size Control of Tetragonal Zirconia Polycrystals Using the Space Charge Concept", J. Am. Ceram. Soc., 1990, 73(11):3269-77 | |
| | | KIM, "Effect of Ta ₂ O ₅ , Nb ₂ O ₅ , and HfO ₂ Alloying on the Transformability of Y ₂ O ₃ -Stabilized Tetragonal ZrO ₂ ", J. Am. Ceram. Soc., 73(1):115-120 | |
| | | BRUCE, "Development of 1232C (2250 F) Erosion and Impact Tests for Thermal Barrier Coatings", Tribology Trans., 41(4); 399-410, (1998) | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|